#include <iostream>

#include <stdio.h>

#include <string.h>

using namespace std;

class employee   *//Abstract Class*

{

    int id;

    char name[20];

    double salary;

public:

    void *setid*(int *a*)

    {

        this->id = *a*;

    }

    void *setname*(const char \**a*)

    {

*strcpy*(this->name, *a*);

    }

    void *setsalary*(double *a*)

    {

        this->salary = *a*;

    }

    int *getid*()

    {

        return this->id;

    }

    const char \**getname*()

    {

        return this->name;

    }

    virtual double *getsalary*()

    {

        return this->salary;

*calsal*(); *//Abstract Function*

    }

    virtual double *calsal*()=0;

*employee*()

    {

        this->id = 00;

*strcpy*(this->name, "not given");

        this->salary = 000;

    }

*employee*(int *id*, const char \**nm*, double *salary*)

    {

        this->id = *id*;

*strcpy*(this->name, *nm*);

        this->salary = *salary*;

    }

    virtual void *display*()

    {

        cout *<<* "\n Name is : " *<<* name;

        cout *<<* "\n Id is : " *<<* id;

        cout *<<* "\n Salary is : " *<<* salary;

    }

}; *// Class Emp End*

class Salesmanager : public employee

{

    double incentive;

    int target;

public:

    void *setincentive*(double *i*)

    {

        this->incentive = *i*;

    }

    void *settarget*(int *t*)

    {

        this->target = *t*;

    }

    double *getincentive*()

    {

        return this->incentive;

    }

    int *gettarget*()

    {

        return this->target;

    }

*Salesmanager*() : *employee*()

    {

        this->incentive = 000;

        this->target = 00;

    }

*Salesmanager*(int *i*, const char \**nm*, double *salary*, double *in*, int *t*) : *employee*(*i*, *nm*, *salary*)

    {

        this->incentive = *in*;

        this->target = *t*;

    }

    void *display*()

    {

        employee::*display*();

        cout *<<* "\n Incentive is : " *<<* this->incentive;

        cout *<<* "\n Target is : " *<<* this->target;

    }

    double *calsal*()

    {

        cout*<<*"\n Totoal Salary->" *<<*  *getsalary*() + *getincentive*();

    }

};*//Sales Manager Class end*

class Admin : public employee

{

    double allowance;

public:

    void *setallowance*(double *a*)

    {

        this->allowance = *a*;

    }

    double *getallowance*()

    {

        return this->allowance;

    }

*Admin*() : *employee*()

    {

        this->allowance = 00;

    }

*Admin*(int *i*, const char \**nm*, double *salary*, double *a*) : *employee*(*i*, *nm*, *salary*)

    {

        this->allowance = *a*;

    }

    void *display*()

    {

        employee::*display*();

        cout *<<* "\n Allowance is : " *<<* this->allowance;

    }

    double *calsal*()

    {

        cout*<<*"\n Totoal Salary->" *<<getsalary*() + *getallowance*() ;

    }

}; *//Admin class end*

class HR : public employee

{

    int commission;

public:

    void *setcommission*(int *c*)

    {

        this->commission = *c*;

    }

    int *getcommission*()

    {

        return this->commission;

    }

*HR*() : *employee*()

    {

       this->commission = 000;

    }

*HR*(int *i*, const char \**nm*, double *salary*, int *c*) : *employee*(*i*, *nm*, *salary*)

    {

        this->commission = *c*;

    }

    void *display*()

    {

        employee::*display*();

        cout *<<* "\n Commission is : " *<<* this->commission;

    }

     double *calsal*()

    {

        cout*<<*"\n Totoal Salary->" *<<getsalary*() + *getcommission*() ;

    }

};*//hr class end*

int *main*()

{

    cout *<<* "\*\*\*\*\*\*\*Sales Manager \*\*\*\*\*\*\*";

    Salesmanager \* sp;

    Salesmanager *s1*(101, "ram", 67000, 105, 25);

    sp = &s1;

    sp->*display*();

    sp->*calsal*();

    cout *<<* "\n\n";

    cout *<<* "\*\*\*\*\*\*\* Admin \*\*\*\*\*\*\*";

    Admin \* ap;

    Admin *a1*(19, "Vani", 80000, 500);

    ap = &a1 ;

    ap->*display*();

    ap->*calsal*();

    cout *<<*"\n\n";

    cout *<<*"\n \*\*\*\*\*\*\* HR \*\*\*\*\*\*\*";

    HR \* hp;

    HR *h2*(17, "Ravi", 73000, 35);

    hp = &h2;

    hp->*display*();

    hp->*calsal*();

    cout *<<* "\n\n";

}

